

**ASTGU ANNUAL REPORT - 2025**

**Long Pond Farm – 109 Neck Road, Rochester, MA**

**PURPOSE**

This Annual Report form is required to be completed and submitted annually for all projects with the MA Department of Energy Resources (DOER) which received qualification as an Agricultural Solar Tariff Generation Unit (ASTGU) under the SMART program. The form is provided to demonstrate conformance with the general provisions required for ASTGUs in 225 CMR 20.00; in particular pertaining to Section 20.06(1)(d) therein as well as associated ASTGU Guidelines; and specifically pertaining to annual reporting requirements.

The completed form will be reviewed by DOER and the MA Department of Agricultural Resources (MDAR) to determine that the farm is in conformance with all ASTGU provisions in general under the SMART Program, although more specifically to the annual production requirements.

**BASIC FARM INFORMATION**

Farm Contact Person Name: Hank Ouimet  Farm Owner

Ken Elliot  Farm Operator

Farm Name: Elliot Farm c/o REDP Services, LLC

Legal Structure:  Sole Proprietor  LLC  Corporation  
 Partnership  Other \_\_\_\_\_

Mailing Address: 99 Derby Street, Suite 200 Hingham, MA 02043

Street Address (if different): 109 Neck Road, Rochester, MA

Contact Phone: Ken 508-821-0803 Hank 603-770-5034

Contact E-mail: Hank houimet@redpllc.com

Check all that apply:  Solar facility owner  Landowner  Applicant

Current Type of ASTGU Farm Operation (Check all that apply):

Vegetables  Fruit  Livestock  Poultry  Hay  
 Nursery  Other \_\_\_\_\_

Total Acreage in ASTGU Farm Production: approximately 3.5 acres

Gross Annual Revenue for ASTGU Farm Production: Total \$0 (first year)

Are any major modifications to the farm business expected in the next 5 years?  Yes  No  
(Check all that apply.)

Business Legal Structure  Operation Type  Expansion  Diversification  
 Retirement  Sale  Subdivision  Other \_\_\_\_\_

**BASIC SOLAR PROJECT INFORMATION**

Solar System Company Owner: REDP Long Pond Solar, LLC

Solar System Company Address: 99 Derby Street, Suite 200, Hingham, MA 02043  
Solar Company Contact Person/email/tel#:  
Hank Ouimet/houimet@redpllc.com/603.770.5034

**ASTGU Project Start-Up/History Information:**

Date ASTGU Approved by DOER: 5/17/24

Date Solar Portion of ASTGU Project Commenced Construction: 11/1/23

Date Solar Portion of ASTGU Project was Completed & Operational: 11/14/24

Date Original Agricultural Portion of the ASTGU Project Commenced: expected spring 2026

Date Original Agricultural ASTGU Portion of Project Harvested/Sowed Products:  
Sowed expected spring 2026  
First Harvest expected fall 2026

How many complete years, that is both solar and agricultural production, has the ASTGU been in operation? Less than one

**SOLAR ARRAY DESIGN – PLEASE PROVIDE AS-BUILT SYSTEM INFORMATION**

Please provide the following information regarding the solar array design:

Nameplate capacity AC (in MW): 0.5 MWac (Note: 1 MW=1000 kW)  
Expected annual generation AC (MWh): 1,200 MWh (Note: 1 MWh=1000 kWh)  
Acreage of farmland over which array is to be installed: approximately 3 acres  
System type:  Fixed  Tracking  Other \_\_\_\_\_  
Height of lowest panel edge (in feet): N/A  
Height of lowest elevated horizontal mounting (in feet): 10' above grade

Type of mounting (mono poles, racking, etc.):

Single axis tracking system supported by steel piles, as proposed in PDA (see attached photos)

Description of materials and process to be used for ground penetration:

Galvanized steel piles (see attached photos)

Number of panels, capacity per panel, and panel spacing:

1,512 Canadian Solar 450W PV modules, as proposed in PDA  
Module spacing along rows <2"; module spacing between rows ~16'

*If you wish to provide additional descriptive information regarding the solar array design, including any system changes since original completion, you may include this information below, or in a typed attachment labeled “Solar Array Design.”*

The solar array was constructed as permitted by the Town of Rochester and approved by DOER.

### **AGRICULTURAL PLAN FOR DUAL-USE AREA**

Planned agricultural use, Year 1. Check all that apply.

- Vegetable, fruit, grains, for human consumption
- Hay
- Livestock production
- Poultry production
- Horticulture
- Floriculture
- Aquaculture
- Other, please describe:

Please fill the Crop Table results following this section for horticulture, flowers, vegetable, fruit, grain, and hay crops for your present year of operation. Fill out one Crop Narrative for each crop, detailing anticipated crop management (planting, irrigation, soil amendments, harvesting) and equipment to be used. **Crop Table – Current Season** follows this section. Also, please also fill out a **Crop Table – Next Season** and corresponding narrative at the end of this section with your best information available.

Please fill out the Grazing Table results following this section for livestock and poultry production for your present year of operation. Please also fill out the Grazing Narrative, detailing anticipated pasture and animal management and equipment to be used. **Grazing Table – Current Season** follows the Crop Table section. Also please fill out a **Grazing Table – Next Season** and corresponding narrative at the end of this section with your best information available.

### **Additional comments regarding agricultural production for Year 1:**

*How did the Agricultural Production perform versus expectations? Please explain why/why not if you can:*

There was no agricultural production in the first year, as planned in our PDA. The year 1 plan was to focus on building soil health through amendments and cover crops, which we implemented and which are explained in more detail in the “crop narrative” section.

Notably, as an example of how difficult developing an ASTGU can be in MA, we were actually ready in the spring of 2025 to plant our initial crop. Considerable soil preparation had been completed, and farm prep work was substantially complete; however, the project had not yet secured farming approval from the local Planning Board. Even though Rochester is a “right to

farm” community, the Planning Board specifically prohibited farming at the site unless and until REDP, as the applicant, presented the DOER-approved farming plan for Planning Board review and approval. Since DOER approval of our PDA was not available at the time of special permit application for the project, the solar permit contained a condition requiring REDP to amend the permit once the DOER-approval was available, and after the project had been constructed. Further complicating the timing, even though the solar project – including the proposed farming area - was substantially complete in the fall of 2024, the Planning Board imposed after the fact screening conditions on the project, requiring substantial site improvements that were not complete until summer 2025. The project finally secured Planning Board approval for farming in September 2025, at the end of the 2025 farming season.

*Did you plant the crops/graze the animals as you originally intended when your Pre-Determination Application was approved? If not please explain.*

Yes, we are still planning on growing a mixed cucurbit crop as indicated in our PDA.

As stated in our PDA, the project has resulted in the creation of new, arable farmland in an area that had previously served as a low utility, material storage area for the adjacent cranberry farm. The SMART dual use program allowed this low utility agricultural land to be converted into an actively cultivated area.

*Were the products marketable anticipated? Please explain how the production values (weight/bushels etc.) were determined.*

No crops were harvested in year one, as planned.

*What occurred during the current season that wasn't anticipated? Positive & Negative.*

Overall, we have been satisfied with our plan to build soil health. The robust growth of our final cover crop this past season indicates that the site is ready for planting next spring.

*What Changes/Modifications do you expect to make to improve on production if needed?*

We will evaluate our season 2 yields prior to implementing any changes.

*Do you expect to grow the same crops on the land in years 2 and 3? Briefly describe your crop rotation plan and what you expect to be growing on the land for the next 5 years. Will the same equipment be used? If not, is current array design compatible with future crop management needs and equipment?*

In years 2 – 5, Elliot Farm intends to plant fall cucurbits. Based upon soil conditions, potential disease and production observations, in year 3 or 4, Elliot Farms will likely rotate in production of eggplant, zucchini, cucumbers, tomatoes and leafy greens before moving back to squash in year 5. Elliot Farm also intends to experiment with producing sweet corn on a portion of the site. This type of annual rotation and experimentation will likely continue throughout the duration of the project.

| <b>Table A: Crop Production – Current Season</b> |   |   |  |  |   |
|--|---|---|--|--|---|
| <b>Crop</b>                                      | <b>Area planted<br/>(Row length and width or acreage, as appropriate)</b> | <b>Planting date(s)<br/>(approximate)</b> | <b>Harvest date(s)<br/>(approximate)</b> | <b>Expected productivity, total pounds harvested with dual use</b> | <b>Actual productivity, pounds, with dual use</b> |
| <b>None*</b>                                     |   |   |  |  |   |
|  |   |   |  |  |   |
|  |   |   |  |  |   |

\*As indicated in our PDA, year one was dedicated to soil preparation activities.

## **CROP NARRATIVE – Current Season**

*Please detail the crop management for this past season, including approximate **dates** and **equipment** used. The purpose of this form is to provide empirical data regarding compatible equipment usage and crop management needs. If you need additional space, please include a typed attachment labeled “Crop Narrative.”*

Crop: None, as planned

Planting Plan:

None, as planned

Soil Amendment Plan:

As anticipated in the PDA for the project, REDP invested a considerable amount of effort and expense in the soil amendment plan for the site. Prior to the start of the project, a portion of the site had been used as a material storage area for bog ditch spoils, bog strippings and organic cranberry harvest waste. The remaining footprint was partially wooded upland. At the start of the project, we cleared the wooded area, stripped and stacked the organic overburden, and mined and stockpiled approximately 5,000 yards of sand for the bog owner’s long-term use. We then graded the subgrade soils to achieve a uniform planting area, grading the site to minimize runoff and to encourage infiltration. We then spread the organic materials stockpiled on the site, plus the native organic soils from the wooded area, over the entire site.

Following the installation of the PV array support piles in early spring 2024, we applied lime at the rate of 4,000 lbs/ac to help neutralize the acidic soils. Two months later, we lightly tilled and seeded the farming area with a mixed species cover crop, and applied fertilizer at the rate of 50 lbs/ac. Upon completion of the PV installation work in late summer 2024, we again applied lime at the rate of 1,000 lbs/ac to the farming area to increase the soil pH level and to prepare the soils for planting. The lime and the first cover crop was incorporated into the soil with mechanical tilling, which also helped make the soils more uniform for planting. Next, we planted a winter rye cover crop to stabilize the soils and to improve soil health, followed again by fertilizer application at the rate of 50 lbs/acre. In the spring of 2025, we again applied lime at the rate of 1,000 lbs/ acre. Following lime application, we broadcast spread a cover crop seed mix consisting of collards, radishes, peas and mixed grasses at the rate of 34 lbs/acre. This cover crop was allowed to mature and die over this past season, and will be incorporated into the soil in spring 2026.

It should be noted that all of the soil amendment activities described above were done prior to the project receiving any incentive payments from the SMART dual use program.

Cultivation Plan:

None, as planned.

Irrigation Plan:

None, as planned.

Pesticide/Herbicide Plan:

None, as planned.

Harvest Plan:

None, as planned.

A photographic chronology of our site preparation and soil amendment activities is attached as Exhibit A.

| Table B: Grazing Production – Current Season |                       |                                     |                                  |                   |                               |  |                                      |
|--|-----------------------|-------------------------------------|----------------------------------|-------------------|-------------------------------|--|--------------------------------------|
| Type(s) of animal grazed                     | Area grazed (acreage) | Grazing pressure # animals per acre | Purpose (e.g. meat, dairy, eggs) | Grazing period(s) | Harvest date(s) if applicable | Expected productivity with solar array | Actual productivity with solar array |
| N/A  |                       |                                     |                                  |                   |                               |  |                                      |
|  |                       |                                     |                                  |                   |                               |  |                                      |

**GRAZING NARRATIVE – Current Season**

*Please detail the past season animal and pasture management, including **dates** and **equipment** used. The purpose of this form is to provide empirical data regarding compatible equipment usage and production needs. If you need additional space, please include a typed attachment labeled “Grazing Narrative.”*

Type(s) of Animals Grazed:

No grazing during past season

Pasture Management Plan: List any anticipated seeding, soil amendment, irrigation, pesticide, mowing, etc., including approximate dates and equipment used.

N/A

Animal Management Plan:

For each type of animal grazed, describe management regarding housing/shelter, water source, fencing, movement, disease treatment, harvest, etc. that was carried out within the solar array area. Describe equipment used in these activities.

N/A

Describe any modifications to the solar array design that were made in order to reduce the risk of animal damage to the solar array, or risk of electrocution to animals.

N/A

| <b>Table A: Crop Production – Next Season</b> |   |   |  |  |  |
|---|---|---|--|--|--|
| <b>Crop</b>                                   | <b>Area planted<br/>(Row length and width or acreage, as appropriate)</b> | <b>Planting date(s)<br/>(approximate)</b> | <b>Harvest date(s)<br/>(approximate)</b> | <b>Expected productivity, total pounds harvested without dual use*</b> | <b>Expected productivity, total pounds, with dual use*</b> |
| <b>Fall cucurbits</b>                         | ~ 3 acres   | <b>May</b>                                | <b>mid-September to mid-October</b>      | <b>36,000 lbs</b>  | <b>23,400 lbs</b>  |
|   |   |   |  |  |  |
|   |   |   |  |  |  |
|   |   |   |  |  |  |

\*As noted in our application, yield data is projected from Elliot Farm operating data and MA NASS data. A reduction factor of 35% has been applied for the “with dual use” scenario to account for PV system impacts (footprint available for raised beds, shading, etc.)

## **CROP NARRATIVE – Next Season**

*Please detail the crop management planned for next season, including approximate **dates** and **equipment** used. The purpose of this form is to provide planned data for the upcoming season regarding compatible equipment usage and crop management needs. If you need additional space, please include a typed attachment labeled “Crop Narrative.”*

Crop: Fall cucurbits

### Planting Plan:

The anticipated planting plan for the first full growing season is to make two or three rows in E/W direction between the PV support columns. Each bed will have a 30” top width with subterranean drip irrigation. The rows will be strip tilled followed by running a single row vacuum planter down each row.

### Soil Amendment Plan:

Elliot Farm expects side dress fertilizer at planting in a 2x2 pattern. When appropriate based upon rainfall and plant growth stage additional fertilizer will be applied adjacent to the row in a strip to provide any additional nutritional requirements. UMass soil tests will be conducted annually.

### Cultivation Plan:

All crops will be cultivated according to The New England Vegetable Management Guide (with insight from UMass extension) and Integrated Pest Management principles (IPM). The primary growing season is May – September. Weeds will be treated before planting and spot treatment will occur 3 to 4 weeks after in addition to hand weeding. IPM will be conducted weekly during the growing season. Any chemicals will be applied under the supervision of an MDAR-licensed applicator.

### Irrigation Plan:

Installation of a centrally located well and irrigation mainlines will allow for water to be made available for the drip irrigation down each raised bed. Irrigation drip line will be installed after strip tilling and before planting. Drip irrigation will occur on an as-needed basis throughout the growing season; however, soil moisture will be monitored, and the irrigation schedule will be adjusted should there be adequate moisture retained in the soil as a result of the solar array.

### Pesticide/Herbicide Plan:

Integrated Pest Management (IPM) principles are strictly followed by Elliot Farm and will be incorporated into the vegetable operation under the array. Pre-emergent herbicides are applied prior to planting. Post emergent herbicides are applied between rows as necessary using a back pack sprayer. Fungicides and pesticides are applied at particular stages of growth based upon

UMass BMP's. Pesticide applications will be performed by or under the direct supervision of an applicator holding a current Massachusetts Department of Agricultural Resources Pesticide Certification/License at rates consistent with product labelling.

Harvest Plan:

Fall cucurbits will be harvested in mid-September to early October and stored in plastic bins either at Doggett Farm or Elliot Farm's headquarters in Lakeville.

| Table B: Grazing Production – Next Season |                       |                                     |                                  |                   |                               |   |  |
|---|-----------------------|-------------------------------------|----------------------------------|-------------------|-------------------------------|---|--|
| Type(s) of animal grazed                  | Area grazed (acreage) | Grazing pressure # animals per acre | Purpose (e.g. meat, dairy, eggs) | Grazing period(s) | Harvest date(s) if applicable | Expected productivity without solar array | Expected productivity with solar array |
| N/A                                       |                       |                                     |                                  |                   |                               |   |  |
|   |                       |                                     |                                  |                   |                               |   |  |

**GRAZING NARRATIVE – Next Season**

*Please detail the next season animal and pasture management, including **dates** and **equipment** used. The purpose of this form is to provide planned data for the upcoming season regarding compatible equipment usage and production needs. If you need additional space, please include a typed attachment labeled “Grazing Narrative.”*

Type(s) of Animals Grazed:

No grazing is planned for next season

Pasture Management Plan: List any anticipated seeding, soil amendment, irrigation, pesticide, mowing, etc., including approximate dates and equipment used.

N/A

Animal Management Plan:

For each type of animal grazed, describe management regarding housing/shelter, water source, fencing, movement, disease treatment, harvest, etc. that was carried out within the solar array area. Describe equipment used in these activities.

N/A

Describe any modifications to the solar array design that were made in order to reduce the risk of animal damage to the solar array, or risk of electrocution to animals.

N/A

## **Waiver for Decreased Yield**

### **i. Waiver for Decreased Yield**

Due to unforeseen circumstances, such as but not limited to weather events, pests, or change in crops, the projected agricultural yield for any given year may be lower than stated in the agricultural plan or previous year's annual report. In these instances, an applicant can request a waiver to the Department for the decreased yields. The applicant must demonstrate to the satisfaction of the Department, and in consultation with MDAR, that a waiver is warranted for good cause. Waiver requests must be submitted by November 1st of the applicable calendar year and sent to [DOER.SMART@mass.gov](mailto:DOER.SMART@mass.gov).

Response: With respect to the reporting obligations associated with qualification of this project as an Agricultural Solar Tariff Generation Unit (ASTGU) under the SMART program, we would note that the project is subject to the ASTGU guidelines with an effective date April 26, 2018. Accordingly, the Long Pond ASTGU project is not subject to this provision.

### **ii. Failure to Report**

If the ASTGU fails to submit an annual report, the Department may declare the project ineligible for the ASTGU adder for one year. If the annual report is not completed for a second year, then the Department may permanently disqualify the ASTGU from continuing to receive the ASTGU Adder for the remainder of the STGU's tariff term.

## SIGNATURES AND ATTESTATIONS

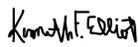
Prior to submitting the Pre-Determination Form, please read and sign as directed below.

### Farm Operator and Farm Owner

I/we hereby certify that the information submitted regarding the current farm conditions and practice and the Agricultural Plan for the Dual-Use Area is accurate and complete to the best of my/our knowledge and intentions, and that I/we have engaged with the University of Massachusetts Amherst Clean Energy Extension and thereby its agricultural extension service to review the Agricultural Plan and its compatibility with the solar array structures and shading. Further, I/we agree, conditional on being provided eligibility to the SMART program as an ASTGU, to submit a report, through a template provided by the University of Massachusetts Clean Energy Extension, annually throughout the duration of the SMART incentive with ASTGU adder, on the operations and productiveness of the solar array and agriculture along with any changes to the Agricultural Plan for the following year. I/we understand that failure to maintain productive agricultural activities and annual reporting may result in the disqualification of the facility as an ASTGU in the SMART program.

  
\_\_\_\_\_  
Hank Ouimet, Manager  
REDP Services, LLC  
Farm Owner

1/30/26  
\_\_\_\_\_  
Date

  
\_\_\_\_\_  
Ken Elliot  
Elliot Farm  
Farm Operator

1/30/2026  
\_\_\_\_\_  
Date

### Solar Facility Owner

I hereby certify that the information submitted regarding the Solar Array Description and inputs and outputs of the Shading Analysis is accurate and complete to the best of my/our knowledge and intentions.

  
\_\_\_\_\_  
Hank Ouimet, Manager  
REDP Long Pond Solar, LLC  
Solar Facility Owner

1/30/26  
\_\_\_\_\_  
Date

## Long Pond - ASTGU



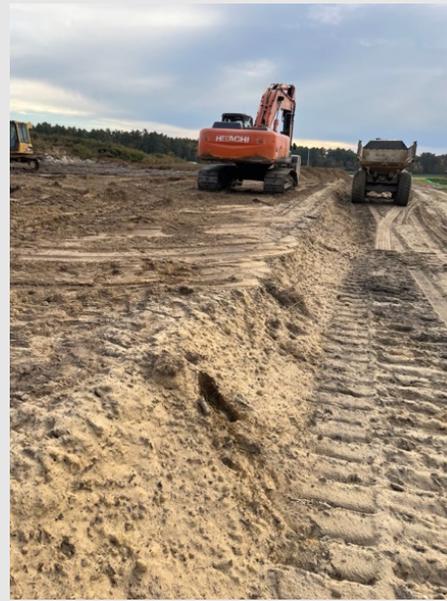
Proposed dual use area shown on 2019 aerial

## Long Pond - ASTGU



Commencing site grading

## Long Pond - ASTGU



Excavating sand for bog use, constructing the access road and grading the subsoil prior to spreading organic material

## Long Pond - ASTGU



Spreading native organic material for planting layer after grading is complete

## Long Pond - ASTGU



Spreading planting layer adjacent to perimeter access road

## Long Pond - ASTGU



Spreading planting layer in northern swale and at southwest corner of new farm field

## Long Pond - ASTGU



Installing PV system support piles after sitework is complete

## Long Pond - ASTGU



Installing PV conduits in deep trenches within farming area;  
note the thickness of organic planting layer

## Long Pond - ASTGU



Planting the first cover crop with a Brillion seeder after PV system mechanical completion

## Long Pond - ASTGU



First cover crop by mid-summer, PV system electrical installation still underway

## Long Pond - ASTGU



First cover crop mowed and left in place, ready for fall tilling.  
Note equipment clearance in swales under PV tracker drive shaft

## Long Pond - ASTGU



Tilling the farming area and incorporating the first cover crop for soil health

## Long Pond - ASTGU



Ready for planting the final cover crop in the spring

## Long Pond - ASTGU



Final cover crop growing well in late spring 2025

## Long Pond - ASTGU



Final cover crop fully established in mid-summer 2025;  
Soils are ready for vegetable crop next season!